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said [polypeptide] selected CTL epitope is DLMGYIPLV (Core₁₃₂₋₁₄₀; SEQ ID NO:54), then said molecule comprises at most nine amino acids.

- response to an hepatitis C viral immunogen, comprising contacting an HLA class I-restricted cytotoxic T lymphocyte with a composition comprising a peptide that induces an hepatitis C virus (HCV)-specific response in cytotoxic T lymphocytes [having] comprising a sequence that has no more than a total of two single amino acid substitutions, deletions or insertions at the corresponding positions as in a CTL epitope which is ADLMGY [PLV (Core₁₃₁₋₁₄₀, SEQ ID NO:1), LLALLSCLTV (Core₁₇₈₋₁₈₇, SEQ ID NO:2), QLRRHIDLLV (E1₂₅₇₋₂₆₆, SEQ ID NO: 3), KLVALGINAV (NS3₁₄₀₆₋₁₄₁₅, SEQ ID NO:28), or LLFNILGGWV (NS4₁₈₀₇₋₁₈₁₆, SEQ ID NO:35) or has no more than a total of one single amino acid substitution, deletion or insertion at the corresponding amino acid positions as in a CTL epitope which is ADLMGY [PLV (Core₁₃₁₋₁₄₀, SEQ ID NO:1), DLMGY [PLV (Core₁₃₂₋₁₄₀, SEQ ID NO:54), LLCPAGHAV (NS3₁₁₆₉₋₁₁₇₇, SEQ ID NO:26), SLMAFTAAV (NS4₁₁₈₉₋₁₇₉₇, SEQ ID NO:34), or ILDSFDPLV (NS5₂₂₅₂₋₂₂₆₀, SEQ ID NO:42).
- 56. (Twice Amended) A method of detecting cytotoxic T cells that respond to a T cell epitope of hepatitis C(virus (HCV), the method comprising the steps of:
 - (a) preparing HLA class 1-restricted cytotoxic T cells;
 - (b) preparing FILA class-I matched and -mismatched target cells;
- (c) containing separately matched and mismatched target cells with a composition comprising a peptide that induces an HCV-specific response in cytotoxic T lymphocytes having the sequence that has no more than a total of two <u>single</u> amino acid substitutions, deletions or insertions at the corresponding positions as in a CTL epitope which is ADLMGYIPLV (Core₁₃₁. SEQ ID NO:1), LLALLSCLTV (Core₁₇₈₋₁₈₇, SEQ ID NO:2), QLRRHIDLLV (E1₂₅₇₋₂₆₆, SEQ ID NO:3), KLVALGINAV (NS3₁₄₀₆₋₁₄₁₅, SEQ ID NO:28), or LLFNILGGWV (NS4₁₈₀₇₋₁₈₁₆, SEQ ID NO:35) or has no more than a total of one <u>single amino acid</u> substitution, deletion or insertion at the corresponding amino acid positions as in a CTL epitope which is DLMGYIPLV

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(Core₁₃₂₋₁₄₀; SEQ ID NO:54), LLCPAGHAV (NS3₁₁₆₉₋₁₁₇₇; SEQ ID NO:26), SLMAFTAAV (NS4₁₇₈₉₋₁₇₉₇; SEQ ID NO:34), or ILDSFDPLV (NS5₂₂₅₂₋₇₂₆₀; SEQ ID NO:42);

- (d) combining the cytotoxic T cells separately with the matched and mismatched target cells; and
 - (e) measuring cytolysis.
- 58. (Twice Amended) A pharmaceutical composition comprising a peptide that induces an hepatitis C virus (HCV)-specific response in cytotoxic T lymphocytes having a sequence that has no more than a total of two single amino acid substitutions, deletions or insertions at the corresponding positions as in a CTL epitope which is ADLMGYIPLV (Core₁₃₁₋₁₄₀; SEQ ID NO:1), LLALLSCLTV (Core_{178/187}, SEQ ID NO:2), QLRRHIDLLV (E1₂₅₇₋₂₆₆, SEQ ID NO:3), KLVALGINAV (NS3₁₄₀₆₋₁₄₁₅; SEQ ID NO:28), or LLFNILGGWV (NS4₁₈₀₇₋₁₈₁₆; SEQ ID NO:35) or has no more than a total of one single amino acid substitution, deletion or insertion at the corresponding amino acid positions as in a CTL epitope which is DLMGYIPLV (Core₁₃₂₋₁₄₀; SEQ ID NO:54), LLCPAGHAV (NS3₁₁₆₉₋₁₁₇₇; SEQ ID NO:26), SLMAFTAAV (NS4₁₇₈₉₋₁₇₉₇; SEQ ID NO:34), or ILDSFDPLV (NS5₂₂₅₂₋₂₂₆₀; SEQ ID NO:42), and a pharmaceutically acceptable carrier.

60. (Amended) A conjugate comprising

(a) a molecule/which comprises:

a polypeptide an having no more than a total of two single amino acid substitutions, deletions or insertions at the corresponding positions as in a CTL epitope which is ADLMGYIPLV (Core₁₃₁₋₁₄₀; SEQ ID NO:1), LLALESCLTV (Core₁₇₈₋₁₈₇; SEQ ID NO:2), QLRRHIDLLV (El₂₅₇₋₂₆₆; SEQ ID NO: 3), KLVALGINAV (NS3₁₄₀₆₋₁₄₁₅; SEQ ID NO:28), LLFNILGGWV (NS4₁₈₀₇₋₁₈₁₆; SEQ ID NO:35) or has no more than a total of one single amino acid substitution, deletion or insertion at the corresponding amino acid positions as in a CTL epitope which is DLMGYIPLV (Core₁₃₂₋₁₄₀; SEQ ID NO:54), LLCPAGHAV (NS3₁₁₆₉₋₁₁₇₇;

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SEQ ID NO:26), SLMAFTAAV (NS41789-1797; SEQ ID NO:34), or ILDSFDPLV (NS52252-2260; \$EQ'ID NO:42),; and

Cooper (b) a substance selected from the group consisting of a radiolabel, an enzyme, a fluorescent label, a solid matrix, a carrier and an additional molecule of (a).

62. (Amended) A conjugate of claim 60 comprising two molecules, each comprising: a polypeptide no more than a total of two single amino acid substitutions, deletions or insertions at the corresponding positions as in a CTL epitope which is ADLMGYIPLV (Core₁₃₁₋₁₄₀; SEQ ID NO:1), I/LAI/LSCLTV (Core₁₇₈₋₁₈₇; SEQ ID NO:2), QLRRHIDLLV (E1257-266; SEQ ID NO: 3), KLVALGINAV (NS31406-1415; SEQ ID NO:28), LLFNILGGWV (NS41807-1816; SEQ ID NO: \$\frac{1}{2}5\$) or has\no more than a total of one single amino acid substitution, deletion or insertion at the corresponding amino acid positions as in a CTL epitope which is DLMGYIPLV (Core₁₃₂₋₁/₄₀; SEQ ID NO:54), LLCPAGHAV (NS3₁₁₆₉₋₁₁₇₇; SEQ ID NO:26), SLMAFTAAV (NS41789-1797/SEQ ID NO:34), or ILDSFDPLV (NS52232-2260; SEQ ID NO:42) [,].

Please enter the following new claims:

- 65. (New) An isolated molecule comprising a polypeptide that induces an hepatitis C virus (HCV)-specific response in dytotoxic T lymphocytes having a sequence that has
 - (a) no more than a total of two single amino acid substitutions, deletions or insertions at the corresponding amino acid positions in a CTL epitope which is LLALLSCLIV (Core₁₇₈₋₁₈₇; SEQ ID NO:2), QLRRHIDLLV (E1₂₅₇₋₂₆₆; SEQ ID NO:3), KLVALGINAV (NS31406-1415; SEQ ID NO:28), or LLFNILGGWV (NS4₁₈₀₇₋₁₈₁₆) SEQ ID NO:35), or
 - (b) has no more than one single amino acid substitution, deletion or insertion at the corresponding amino acid positions as in a CTL epitope which is ADLMGYIPLV (Core₁₃₁₋₁₄₀; SEQ ID NO:1), DLMGYIPLV (Core₁₃₂₋₁₄₀; SEQ ID NO:54), LLCPAGHAV (NS31169-1177, SEQ ID NO:26), SLMAFTAAV (NS41789. 1797; SEQ ID NO:34), or ILDSFDPLV (NS5₂₂₅₂₋₂₂₆₀; SEQ ID NO:42),